1	Find the distance between	16	Find all the x and y intercepts of $f(x) = x^3 - x^3$
	(-2, -4) and $(1, -5)$.		9 <i>x</i> .
2	Find the midpoint between points	17	Find all x such that $(x, 6)$ is a point on the graph
	(3,−5) <i>and</i> (2,7).		of $f(x) = x^2 + x$.
3	Find the x and y intercepts of $y = x^2 - x^2$	18	Is the function even, odd or neither? A) $f(x) =$
	5x - 14.		$\frac{x^3+5x}{r}$
			$x-x^{5}$
			$B) f(x) = \frac{1}{x^3 - x}$
4	Test for symmetries: $y = \frac{2x - x^3}{x + x^5}$	19	Find the average rate of change of $f(x) = 3 - 2$
	x+x ⁵		x^2 from $x = 0$ to $x = 2$.
5	Find the center and radius: $x^2 + y^2 - y^2 = y^2 - $	20	For $f(x) = 2x - x^2$, find $\frac{f(3+h) - f(3)}{h}$ and
	10x + 2y + 1 = 0		simplify.
6	Find the equation of the line through	21	For $f(x) = (-3, x \le 2)$
	(-2,4) <i>and</i> (-1,7).		$\int (x)^{-1} (-x + 5), x > 2$
			Find $f(-10)$, $f(2)$, $f(7)$. Draw the graph.
7	Find the equation of the line parallel to the	22	Graph $f(x) = (x + 1)^2 - 4$. Find the x and y
	y-axis and through (2,5).		intercepts.
8	Find the equation of the line perpendicular	23	What equation is the result of the following
	to the x-axis and through (7,8).		transformations of $y = \sqrt{x}$?
			Reflect through y-axis
			• Shift left 3
			• Shift up 10
			Reflect through the x-axis
9	Find the x and y intercepts of $2x + 3y = 7$.	24	Show that the following transformations of $y =$
			\sqrt{x} result in $y = -\sqrt{-x} + 3 - 10$.
			Reflect through y-axis
			• Shift right 3
			• Shift up 10
			Reflect through x-axis
10	Final the slave of the line that is second at the	25	$\mathbf{r} = \mathbf{r} \cdot \mathbf{r} \cdot \mathbf{r}$
10	Find the slope of the line that is parallel to $2m = 2m = 7$	⊿>	For $f(x) = 3 - 2x$ and $f(x) = x^2 + 2$ find
	3x - 2y = 7.	21	f(g(x)) and $g(f(x))$.
11	Find the slope of the line that is	<i>3</i> 6	A function is one-to-one if
10	perpendicular to $7x + 5y = 2$.	~1	
12	Does $y^2 + 2x = 7$ define y as a function of	~1	A function has an inverse if it is
12	X: For f(x) = 7 as find $f(2x = 2)$	10	Assume $f(x)$ is one to one and $f(2) = 2$ then
13	For $f(x) = 7 - 2x$, find $f(3x - 2)$.	28	Assume $f(x)$ is one-to-one, and $f(z) = 3$, then $f^{-1}(z) = -1$
			$f(f^{-1}(2)) = $
14	x-3	20	$\frac{dilu}{f(x)} = \frac{7}{2x} + \frac{1}{2x} + \frac{1}$
14	Find the domain of A) $f(x) = \frac{x^2}{x^2 - 5x - 14}$ B)	-29	$(x) = 7 - 5x$, then $f^{-}(x) = $
	$f(x) = \frac{x-2}{\sqrt{x-5}}$		
15	Is point $(-3,4)$ on the graph of $x^2 + v^2 =$	30	If $f(x) = \frac{1}{1}$ then $f^{-1}(x) = \frac{1}{1}$
L	25?		x_{-5} , x_{-

Math 14 Review For Exam 2 : sections 2.1-2.9 -2, 7